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**Amendments to the Specification**

Please amend the paragraphs at page 2, line 15, through page 3, line 16, in the following manner:

**Brief Summary Disclosure of the Invention**

In ~~order to attain the object, an image data collection control method according to the present invention is~~ an aspect of this disclosure, there is provided an image data collection control method for collecting multiple pieces of image data from an image data collection range including a periodically moving part of an object to be examined, the method including: a periodic motion data obtaining step of obtaining periodic motion data indicating changes of a periodic motion with time, an image data collection condition setting step of setting image data collection conditions for allowing the image data of the image data collection range to have a time resolution within a desired range, an image data collection position control step of relatively moving at least a part of the image data collection range and the collection position of the image data such that the part of the range and the collection position are superimposed on each other within a time when the image data of the image data collection range has a time resolution within the desired range based on the image data collection conditions, and an image data collecting step of collecting the image data of at least a part of the image data collection range on the image data collection position.

~~An image data collection system according to the present invention is~~ In another aspect of this disclosure, there is provided an image data collection system for collecting multiple pieces of image data from an image data collection range including a periodically moving part of an object to be examined, the system comprising: a periodic motion data obtaining means for obtaining periodic motion data indicating changes of a periodic motion with time, an image data collection condition setting means for setting image data collection conditions for allowing the image data of the image data collection range to have a time resolution within a desired range, an image data collection position control means for relatively moving

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at least a part of the image data collection range and the collection position of the image data such that the part of the range and the collection position are superimposed on each other within a time when the image data of the image data collection range has a time resolution within the desired range based on the image data collection conditions, and an image data collecting means for collecting the image data of at least a part of the image data collection range on the image data collection position.

~~According to the present invention~~ In another aspect, changes of periodic motion on a periodically moving part of an object are estimated during the collection of image data, and the collection of image data is controlled accordingly, so that image data can be collected with a preferable time resolution.